## - Approved For Release 2001/03/04 A-RDP33-02415A000500390053-5

GUS-02741 Cy\_/of 4 26 May 1959

Est 3 - 4 hrs ?

## MEMORANDUM FOR THE RECORD:

SUBJECT: Comparison Study of Proposed Follow-on Vehicle

- 1. This report represents an initial comparison study of the two proposed follow-on vehicles; Convair's Super Hustler and Lockheed's A-11.
  - 2. The evaluation is based on the following references:
  - (a) Memo for Record, Subject: "Follow-on Operational Considerations," dated 25 May 1959.
  - (b) Memo for Record, Subject: "Follow-on Evaluation Criteria," dated 25 May 1959.
  - 3. Operational Comparison
    - (a) Performance

8 Turn Around Time

			Super Hustler	<u>A-11</u>
	1	Speed	Mach 4.0	Mach 3.2
25X1D	2	Range		
		(a) W/O Refueling	4150 NM ?	25X1D
		(b) With Refueling	B-58 6,000 NM - pre-strike Super 4,000, ‡ ? ? post-strike	25X1D
	3	Altitude PROFILE	90,000 2100,000	87,000 ft &
	4	Employment	Requires staging or deployment base  Low RADAR PERLECTIVITY	Requires no overseas bases. Can T.O. and land from one Z.I. base (Security - Log- istic - Political and Cover factors.)
	5	Radar Immunity	Considered	HIGH RADAR REFERENCE: Not considered
25X1D	6		Considered HIGHER	Considered Lower
25X1D				

Estimated 8 - 12 hrs ?

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		Super Hustler	<u>A-11</u>
9	System Availability	Contractor estimate 24 Mo.	18 - 24 Mo.
10	Navigation System	Inertial Guidance System	Inertial Guidance Syste
11	Fatigue Factor	Capsule Concept - comfortable cockpit environment	Pressure suit - and high temperatures
12	Escape System	Capsule - feasible and desirable	Minimum acceptable by USAF standards
13	Payload Capability	500 lbs - five alternate locations  ADDED WT + CUBAGE MORE  DIFFICULT THAN	500 lbs. *U-2 size Bay 5 ft diam. 72 in. long 48 in. hatches
14	Logistics		
	anous one shecter atomic	compare the two vehicles since vehandling equipment, fuels, retriestimate of requirements.	ery little is known eve procedures, etc.
	(a) <u>Maintenance</u>	Equivalent to operating 4 U-2s per single mission	Equivalent to operating 2 U-2s for single mission
	(b) Ground Handling	Unknown	Unknown
	(c) Time Estimates		
	(1) <u>Sortie Rate</u>	one/day	one/day
	(2) Turn Around	8 - 12 hrs depending on retrieve	6 - 8 hrs.
	(3) <u>In commission</u>	rate 50% of A-11	Unknown
	(4) Logistics	Double Qty	Single Qty
	( <u>1</u> )	Ground Equip	
	( <u>2</u> )	Personnel Equip	
	( <u>3</u> )	Hangar space	
	( <u>4</u> )	Cargo space	
	(5)	Staging operations	

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- 3 -

(5) Engines

3 types

1 type

3 contractors

1 contractor

7 total

2 total

25X1A9a

Colonel USAF Chief, Operations Branch, DPD

DPD/DD-P:AES/am